

## SSOW – Removal and disposal of asbestos brakes

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<b>Scope of Activity:</b>	This assessment covers Forkway Engineers removing brake shoes which may contain asbestos and final disposal of all contaminated wastes.
<b>Applicable Risk Assessments:</b>	RA 014 Removal and disposal of asbestos brakes RA 001 Maintenance and repair IC, electric, mains or generator powered materials handling and plant equipment.
<b>Hazards Expected:</b>	As identified in the applicable risk assessments.
<b>Mandatory PPE:</b>	Disposable Overalls with hood Type5 BS EN ISO 13982-1 RPE-disposable respirator to EN149 or EN1827 (ffP3 or FMP3) – Fit test must have been undertaken by competent person to ensure a sufficiently tight seal is possible Safety boots no laces (wellingtons) Disposable boot covers Nitrile gloves Rubber gauntlets Safety glasses Full face visor
<b>Additional PPE (as required):</b>	N/A
<b>Resources:</b>	Competent engineer (s) Suitable tape for sealing joins in PPE (e.g., cuffs of overalls around nitrile gloves or boots) Class H Vacuum Cleaner – BS8520-3:2009 (With Filter BS EN1822) Low pressure Sprayer (Less than 3.4 bar/50psi) Cotton rags Maintenance spray (WD40 type) Barrier tape and signage (to warn people not to enter area) Suitable bags for waste – must be double bagged with red inner bag with asbestos warnings and a clear outer bag with CDG signage UN approved packaging waste container with a CDG hazard sign and asbestos code information visible for disposal of asbestos products Registered waste carrier for asbestos disposal

### Manning:

Field service engineer(s) reporting to an Engineering Manager who is responsible for providing information, instruction, supervision and ensuring that the engineers are suitably trained. In turn the Engineering Manager reports to the Senior / Regional Business Manager.

Engineers will take full responsibility for:

- Customer contact, authority to carry out the task, signing and implementing customer work permits and following customer site rules;
- Establishing with the customer and working in a safe area and environment;
- Ensuring that a risk assessment is in place, is suitable and sufficiently covers all hazards;
- Familiarising themselves with the equipment operator and maintenance manuals;
- Ensuring all maintenance and repairs are completed in accordance with the manufacturer's manual.

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### Safe Working Method:

- Upon arrival on site, you must sign in where applicable and make contact with the designated site contact. You must ensure you have completed any necessary inductions and any permits to work or other documentation required by customer have been completed;
- Agree with the site contact a designated safe working area in which to carry out all operations;
- Ensure area is cordoned off to prevent unauthorised entry and warning signs are erected to advise of possible asbestos removal.
- Plant equipment will then be positioned and prepared for removal of brake drums in line with manufactures guidelines and service information. (Typical Example)



- When you've reached the point where the drum can be removed, before proceeding any further you must all PPE mandatory PPE outlined on page 1 is fitted
  - Disposable overalls must go over the top of safety boots and then be taped around the ankles to the boot to create a seal.
  - Disposable boot covers must be placed over boots and taped around ankles to the disposable overalls to create a seal.
  - Disposable overalls must be taped around the wrists of nitrile gloves to create a seal. Rubber gauntlets must then go over the top. The top of the gauntlets should be taped to the overalls to create a seal.
  - Hood of disposable overalls must be placed over head and overalls completely closed up.
  - Disposable respirator mask must form tight seal around face – note, this must have been fit tested by a competent person.



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- Prior to final removal of drums, entire drum, back plate assembly and any required pulling equipment will be positioned and an asbestos disposal bag, pre-sprayed internally with maintenance spray. The bag will be taped behind each axle. Pierce bag to allow socket, extension and ratchet to be fitted to puller and to connect vacuum cleaner hose and tape all joints to create a seal.



- Switch on vacuum cleaner, tighten hub puller bolt to free hub, leave vacuum running, lower drum and puller to floor with bag still sealed. Clean shoes, back plate assembly and inside of hub as much with the vacuum cleaner.
- Once satisfied that the majority of dust has been vacuumed, with the vacuum still running remove pipe from bag and seal.
- Remove bag from axle and seal.



- Take drum/puller to wash tank for cleaning as required.



- With brake shoes and back plate now accessible, place drain tray with cotton cloth under back plate assy. Also position vacuum cleaner hose in close proximity to work area and switch on.
- Spray back plate/shoe assembly with brake cleaner using low pressure spray ensuring all parts are wet. Clean any residues with cotton rags and ensure assembly is as clean as possible before further disassembly.



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- Once satisfied, remove shoes and mechanism. If shoes and other components are being replaced, place in double bag and dispose of in suitable asbestos waste container.
- If brake shoes are to be relined ensure shoes are double bagged, correctly labelled and then placed in a plastic box for transportation. Ensure any components being kept are thoroughly cleaned.

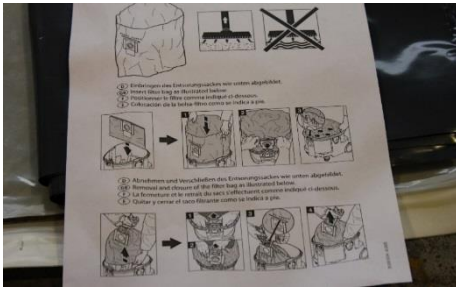


- Return to back plate assembly and thoroughly clean once again using the hoover and with brake cleaner and rags to ensure there are no more residues.



- After cleaning back plate assembly, use hoover to clean any residues off of yourself then pat with damp rags.
- Once complete, clean vacuum by emptying cleaner bag containing following manufactures instructions and decontaminate work area by cleaning floor area with damp cloth, working from furthest point towards contaminated waste holding area. Double bag contaminated rags, place in asbestos disposal bin and seal.

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- When removal of all contaminated items has been completed PPE can then be removed and disposed of. It's important that this is done in an orderly fashion with the disposable respirator removed last.
  - Peel items of PPE off so they come off inside out
  - Start with gauntlets then remove disposable overalls and boot covers
  - Next remove boots, full face visor and safety glasses
  - Then remove nitrile gloves
  - As each item is removed it should be placed in double bag which once complete should be sealed and disposed of in the asbestos waste bin
  - Only once this bag has been sealed can you remove your disposable respirator, which must also be double bagged and disposed of in the correct asbestos waste bin.



- Rebuilding the brake system with non-asbestos shoe linings can now continue in the normal manner following the manufacturer's guidance.